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## OLS Record


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### ITEM NUMBER: 2

Main Title	Mixing heights, wind speeds, and potential for urban air pollution throughout the contiguous United States.																											
Author	Holzworth, George C.																											
CORP Author	Environmental Protection Agency, Research Triangle Park, N.C. Office of Air Programs.																											
Publisher	Environmental Protection Agency, Office of Air Programs, {for sale by the Supt. of Doc., U. S. Govt. Print. Off., Washington}																											
Year Published	1972																											
OCLC Number	00305516																											
Report Number	EPA450R72102; AP-101																											
Holdings	<table border="1"> <thead> <tr> <th>LIBRARY</th> <th>CALL NUMBER</th> <th>LOCATION</th> </tr> </thead> <tbody> <tr> <td>EJBM</td> <td>QC983.H64</td> <td>Headquarters Library/Washington,DC</td> </tr> <tr> <td>EJED</td> <td>EPA-450/1972.1</td> <td>OPPTS Chemical Library/Washington,DC</td> </tr> <tr> <td>EKAM</td> <td>QC983.H64</td> <td>Region 4 Library/Atlanta,GA</td> </tr> <tr> <td>EKBD</td> <td>EPA-AP-101</td> <td>Library Services Office/RTP,NC</td> </tr> <tr> <td>ELBD</td> <td>EPA AP-101</td> <td>AWBERC Library/Cincinnati,OH</td> </tr> <tr> <td>ELCM</td> <td>QC983.H64 1972</td> <td>NVFEL Library/Ann Arbor, MI</td> </tr> <tr> <td>EMAD</td> <td>EPA/AP-101 1972</td> <td>Region 6 Library/Dallas,TX</td> </tr> <tr> <td>NTIS</td> <td>PB-207 103</td> <td>NTIS</td> </tr> </tbody> </table> <p>Most EPA libraries have a fiche copy filed under the call number shown. Check with individual libraries about paper copy.</p>	LIBRARY	CALL NUMBER	LOCATION	EJBM	QC983.H64	Headquarters Library/Washington,DC	EJED	EPA-450/1972.1	OPPTS Chemical Library/Washington,DC	EKAM	QC983.H64	Region 4 Library/Atlanta,GA	EKBD	EPA-AP-101	Library Services Office/RTP,NC	ELBD	EPA AP-101	AWBERC Library/Cincinnati,OH	ELCM	QC983.H64 1972	NVFEL Library/Ann Arbor, MI	EMAD	EPA/AP-101 1972	Region 6 Library/Dallas,TX	NTIS	PB-207 103	NTIS
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Collation	xi, 118 p. illus.
Series Ti Traced	Office of Air Programs publication, no. AP-101
Series Ti Untraced	Office of Air Programs publication no. AP-101
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Availability Notes	Paper copy available from GPO \$1.25 as EP4.9:101.
Subjects	Synoptic climatology--United States; Urban climatology--United States; Air--Pollution--United States; Boundary layer (Meteorology); ( Air pollution; Atmospheric motion); ( Urban areas; Atmospheric motion); Forecasting; Temperature inversions; Wind(Meteorology); Climatology; Seasonal variations; Mixing; Graphs(Charts); Wind velocity; Dispersing; Air pollution forecasts; Air pollution episodes
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**Abstract**

There is interest in pertinent climatological information and an overall appraisal thereof in terms of quantitative pollution potential. As used here, the potential for urban air pollution refers to certain meteorological factors that generally are important in the transport and diffusion of pollutants emitted by myriad but non-trivial sources in urban complexes. The mixing-layer height and the average wind speed within the mixing layer were calculated twice for each day of a 5-year record of upper air observations at 62 National Weather Service stations in the contiguous United States. These calculations illustrate the typical large diurnal variation in atmospheric dispersion. Twenty charts present seasonal and annual, and morning and afternoon mean mixing heights and wind speeds. A model of some general dispersion features over urban areas is described in which the normalized pollutant concentration averaged over a city is a function of mixing height, wind speed, and city size (distance the wind travels across the city). Isopleths of the total number of episode-days for episodes lasting at least 2 days and at least 5 days with various limiting mixing-height and wind-speed values are presented in 20 charts. (Author)



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